

ABSTRACT

Three non-complex imaging arrangements are provided where in two of the imaging arrangements a moveable carrier housing at least one objective lens is provided and, in the other imaging arrangement, at least one stationary objective lens and additional optical elements are provided. Each embodiment includes at least one fixed image sensor array for imaging thereon an optical code or target, such as a one-dimensional barcode symbol, or label, marking, picture, etc. Each imaging arrangement provides an extended working range of approximately 5-102cm. The imaging arrangements are capable of being incorporated within a barcode imager to provide a non-complex barcode imager having an extended working range which is comparable to or greater than the working ranges of conventional image-based barcode imagers.